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Search Results - Record(s) 1 through 10 of 10 returned.☐ 1. Document ID: US 20020151024 A1

L7: Entry 1 of 10

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151024

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151024 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beavo, Joseph A.	Seattle	WA	US	
Bentley, J. Kelley	Seattle	WA	US	
Charbonneau, Harry	West Lafayette	IN	US	
Sonnenburg, William K.	Mountlake Terrace	WA	US	

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 2. Document ID: US 6489457 B1

L7: Entry 2 of 10

File: USPT

Dec 3, 2002

US-PAT-NO: 6489457

DOCUMENT-IDENTIFIER: US 6489457 B1

TITLE: Human phosphodiesterase IV isozymes

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher, Douglas A.	Mystic	CT		
Robbins, Michael D.	East Lyme	CT		

US-CL-CURRENT: 536/23.1; 435/6, 435/91.2, 536/22.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 3. Document ID: US 6350603 B1

L7: Entry 3 of 10

File: USPT

Feb 26, 2002

US-PAT-NO: 6350603

DOCUMENT-IDENTIFIER: US 6350603 B1

**** See image for Certificate of Correction ****

TITLE: Phosphodiesterase 10

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loughney; Kate	Seattle	WA		

US-CL-CURRENT: 435/196; 435/252.3, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc
Image												

☐ 4. Document ID: US 6323041 B1

L7: Entry 4 of 10

File: USPT

Nov 27, 2001

US-PAT-NO: 6323041

DOCUMENT-IDENTIFIER: US 6323041 B1

TITLE: Screening novel human phosphodiesterase IV isozymes for compounds which modify their enzymatic activity

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher; Douglas A.	New York	NY		
Robbins; Michael D.	New York	NY		

US-CL-CURRENT: 436/501; 435/183, 435/19, 435/196, 435/4, 435/455, 435/7.1, 536/23.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC	Draw Desc
Image											

☐ 5. Document ID: US 6277377 B1

L7: Entry 5 of 10

File: USPT

Aug 21, 2001

US-PAT-NO: 6277377

DOCUMENT-IDENTIFIER: US 6277377 B1

TITLE: Human phosphodiesterase regulatory subunit

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hillman; Jennifer L.	San Jose	CA		
Corley; Neil C.	Mountain View	CA		
Shah; Purvi	Sunnyvale	CA		

US-CL-CURRENT: 424/185.1; 435/7.1, 514/12, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 6. Document ID: US 5686286 A

L7: Entry 6 of 10

File: USPT

Nov 11, 1997

US-PAT-NO: 5686286

DOCUMENT-IDENTIFIER: US 5686286 A

TITLE: hPDE IV-C: a novel human phosphodiesterase IV isozyme

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher; Douglas A.	Mystic	CT		

US-CL-CURRENT: 435/199; 435/196, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 7. Document ID: US 5672509 A

L7: Entry 7 of 10

File: USPT

Sep 30, 1997

US-PAT-NO: 5672509

DOCUMENT-IDENTIFIER: US 5672509 A

TITLE: hPDE IV-C: a human phosphodiesterase IV isozyme

DATE-ISSUED: September 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fisher; Douglas A.	Mystic	CT		

US-CL-CURRENT: 435/325; 435/320.1, 435/91.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 8. Document ID: US 5602019 A

L7: Entry 8 of 10

File: USPT

Feb 11, 1997

US-PAT-NO: 5602019

DOCUMENT-IDENTIFIER: US 5602019 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beavo; Joseph A.	Seattle	WA		
Bentley; Kelley J.	Seattle	WA		
Charbonneau; Harry	W. Lafayette	IN		
Sonnenburg; William K.	Seattle	WA		

US-CL-CURRENT: 435/196; 435/199, 435/252.3, 435/254.2, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

☐ 9. Document ID: US 5580771 A

L7: Entry 9 of 10

File: USPT

Dec 3, 1996

US-PAT-NO: 5580771

DOCUMENT-IDENTIFIER: US 5580771 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beavo; Joseph A.	Seattle	WA		
Charbonneau; Harry	W. Lafayette	IN		
Sonnenburg; William K.	Mountlake Terrace	WA		

US-CL-CURRENT: 435/199; 435/196, 435/254.2, 435/320.1, 435/325, 435/365, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

☐ 10. Document ID: US 5389527 A

L7: Entry 10 of 10

File: USPT

Feb 14, 1995

US-PAT-NO: 5389527

DOCUMENT-IDENTIFIER: US 5389527 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beavo; Joseph A.	Seattle	WA		
Charbonneau; Harry	W. Lafayette	WA		
Sonnenburg; William K.	Mountlake Terrace	WA		

US-CL-CURRENT: 435/69.1; 435/196, 435/199, 435/252.3, 435/254.11, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
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human phosphodiesterase and dna.clm.

10

Display Format:

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L7: Entry 9 of 10

File: USPT

Dec 3, 1996

US-PAT-NO: 5580771

DOCUMENT-IDENTIFIER: US 5580771 A

**** See image for Certificate of Correction ****

TITLE: DNA encoding mammalian phosphodiesterases

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beavo; Joseph A.	Seattle	WA		
Charbonneau; Harry	W. Lafayette	IN		
Sonnenburg; William K.	Mountlake Terrace	WA		

US-CL-CURRENT: 435/199; 435/196, 435/254.2, 435/320.1, 435/325, 435/365, 536/23.2

CLAIMS:

What is claimed is:

1. A purified and isolated polynucleotide comprising the cyclic GMP stimulated phosphodiesterase polynucleotide of SEQ ID NO: 42.
2. A DNA according to claim 1.
3. A cDNA according to claim 2.
4. A genomic DNA according to claim 2.
5. A DNA vector having inserted therein a DNA according to claim 2.
6. A DNA vector according to claim 5 that is pBBGESPDE-7 (ATCC 68580).
7. A procaryotic or eucaryotic host cell stably transformed with a DNA according to claim 2.
8. A yeast host cell according to claim 7.
9. A method for producing a cyclic GMP stimulated phosphodiesterase comprising growing a host cell according to claim 7 under suitable conditions allowing expression of said DNA in said host cell and isolating the polypeptide expression product from the host cell or the medium of its growth.

WEST**End of Result Set**☐

Generate Collection

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L5: Entry 1 of 1

File: USPT

Dec 22, 1998

US-PAT-NO: 5851784

DOCUMENT-IDENTIFIER: US 5851784 A

TITLE: Human phosphodiesterase type IVC, and its production and use

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Owens; Raymond John	Henley-on-Thames			GB
Perry; Martin John	Surrey			GB
Lumb; Simon Mark	Maidenhead			GB

US-CL-CURRENT: 435/19; 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2, 536/23.5

CLAIMS:

We claim:

1. A recombinant phosphodiesterase comprising the amino acid sequence of FIGS. 2A to 2C herein (SEQ, ID No: 32), or a catalytically active fragment thereof.
2. A R- and S-rolipram stereoselective conformer of the phosphodiesterase according to claim 2.
3. A conformer according to claim 2 obtainable from mammalian or insect cells.
4. A recombinant phosphodiesterase according to claim 1 in isolated form.
5. A recombinant phosphodiesterase according to claim 2 in isolated form.

WEST

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Search Results - Record(s) 1 through 10 of 42 returned.☐ 1. Document ID: US 20030158133 A1

L2: Entry 1 of 42

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158133
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030158133 A1

TITLE: Isoform-selective inhibitors and activators of PDE3 cyclic nucleotide
phosphodiesterases

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Movsesian, Matthew A.	Salt Lake City	UT	US	

US-CL-CURRENT: 514/44; 435/196, 435/320.1, 435/325, 435/6, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 2. Document ID: US 20030143588 A1

L2: Entry 2 of 42

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143588
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143588 A1

TITLE: Phosphodiesterases

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thornton, Michael B.	Woodside	CA	US	
Ding, Li	Creve Coeur	MO	US	
Arvizu, Chandra S.	San Jose	CA	US	
Yao, Monique G.	Carmel	IN	US	
Tribouley, Catherine M.	San Francisco	CA	US	
Lal, Preeti G.	Santa Clara	CA	US	
Hafalia, April J. A.	Santa Clara	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	
Ramkumar, Jayalaxmi	Fremont	CA	US	
Lu, Yan	Palo Alto	CA	US	
Chawla, Narinder K.	Union City	CA	US	

US-CL-CURRENT: 435/6; 435/196, 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc
Image												

☐ 3. Document ID: US 20030040041 A1

L2: Entry 3 of 42

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040041
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030040041 A1

TITLE: Target

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Parums, Dinah	Cambridge		GB	
Phillips, Stephen Charles	Kent		GB	
Ridden, John	Kent		GB	

US-CL-CURRENT: 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

☐ 4. Document ID: US 20030018014 A1

L2: Entry 4 of 42

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018014
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030018014 A1

TITLE: Compositions and methods for the treatment of chronic lymphocytic leukemia

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lerner, Adam	Newton Highlands	MA	US	

US-CL-CURRENT: 514/80; 514/263.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC	Draw Desc
Image											

☐ 5. Document ID: US 20020151024 A1

L2: Entry 5 of 42

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151024
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020151024 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beavo, Joseph A.	Seattle	WA	US	
Bentley, J. Kelley	Seattle	WA	US	
Charbonneau, Harry	West Lafayette	IN	US	
Sonnenburg, William K.	Mountlake Terrace	WA	US	

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

☐ 6. Document ID: US 20020115179 A1

L2: Entry 6 of 42

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020115179 A1

TITLE: Isolated human phosphodiesterase proteins, nucleic acid molecules encoding human phosphodiesterase proteins, and uses thereof

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wei, Ming-Hui	Germantown	MD	US	
Wang, Xin	Bethesda	MD	US	
Merkulov, Gennady V.	Baltimore	MD	US	
Di Francesco, Valentina	Rockville	MD	US	
Beasley, Ellen M.	Darnestown	MD	US	

US-CL-CURRENT: 435/197; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

☐ 7. Document ID: US 20020103120 A1

L2: Entry 7 of 42

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103120
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020103120 A1

TITLE: Regulation of human phosphodiesterase-like enzyme

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ramakrishnan, Shyam	Brighton	MA	US	

US-CL-CURRENT: 514/12; 435/196, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC	Draw Desc
Image											

☐ 8. Document ID: US 20020086810 A1

L2: Entry 8 of 42

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086810

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086810 A1

TITLE: Isolated human phosphodiesterase proteins, nucleic acid molecules encoding human phosphodiesterase proteins, and uses thereof

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guegler, Karl	Menlo Park	CA	US	
Brandon, Rhonda C.	Laytonsville	MD	US	
Di Francesco, Valentina	Rockville	MD	US	
Beasley, Ellen M.	Darnestown	MD	US	

US-CL-CURRENT: 514/1; 435/196, 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC	Draw Desc
Image											

☐ 9. Document ID: US 6569617 B1

L2: Entry 9 of 42

File: USPT

May 27, 2003

US-PAT-NO: 6569617

DOCUMENT-IDENTIFIER: US 6569617 B1

TITLE: Methods for identifying modulators of gene expression

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wigler; Michael H.	Lloyd Harbor	NY		
Colicelli; John J.	Huntington	NY		

US-CL-CURRENT: [435/6](#); [435/254.11](#), [435/254.2](#), [435/325](#), [435/455](#), [435/69.1](#), [435/7.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
Image											

☐ 10. Document ID: US 6566087 B1

L2: Entry 10 of 42

File: USPT

May 20, 2003

US-PAT-NO: 6566087
DOCUMENT-IDENTIFIER: US 6566087 B1

TITLE: Phosphodiesterase 8A

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loughney; Kate	Seattle	WA		

US-CL-CURRENT: [435/19](#); [435/183](#), [435/196](#), [435/4](#), [435/7.1](#), [435/7.71](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC	Draw Desc
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human phosphodiesterase and dna	42

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WEST Search History

DATE: Tuesday, August 26, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L7	human phosphodiesterase and dna.clm.	10	L7
L6	phosphodiesterase and dna.clm.	923	L6
L5	recombinant phosphodiesterase.clm.	1	L5
L4	recombinant phosphodiesterase	29	L4
L3	phosphodiesterase and dna	2463	L3
L2	human phosphodiesterase and dna	42	L2
L1	phosphodiesterase and human	5799	L1

END OF SEARCH HISTORY

WEST

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L8: Entry 1 of 2

File: EPAB

Mar 21, 2001

PUB-NO: EP001085092A1
DOCUMENT-IDENTIFIER: EP 1085092 A1
TITLE: Phosphodiesterase enzymes

PUBN-DATE: March 21, 2001

INVENTOR-INFORMATION:

NAME

FIDOCK, MARK DAVID

COUNTRY

GB

ASSIGNEE-INFORMATION:

NAME

PFIZER LTD

PFIZER

COUNTRY

GB

US

APPL-NO: EP00307982

APPL-DATE: September 14, 2000

PRIORITY-DATA: GB09922125A (September 17, 1999)

INT-CL (IPC): C12 N 15/53; C12 N 9/16; C12 N 15/866; C12 N 5/10; C12 Q 1/44; A61 K
48/00; A61 K 38/46

EUR-CL (EPC): C12N009/16

ABSTRACT:

CHG DATE=20010403 STATUS=O>&ORDF;&ORDF;&ORDF;&ORDF;Amino acid sequences and nucleotide sequences relating to PDE1B2 are described. In a preferred aspect, the amino acid sequence comprises the sequence presented as SEQ ID No. 1.

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: EP 1085092 A1

L8: Entry 1 of 2

File: EPAB

Mar 21, 2001

PUB-NO: EP001085092A1

DOCUMENT-IDENTIFIER: EP 1085092 A1

TITLE: Phosphodiesterase enzymes

PUBN-DATE: March 21, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

FIDOCK, MARK DAVID

GB

INT-CL (IPC): C12 N 15/53; C12 N 9/16; C12 N 15/866; C12 N 5/10; C12 Q 1/44; A61 K 48/00; A61 K 38/46

EUR-CL (EPC): C12N009/16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc
Image												

☐ 2. Document ID: EP 1085092 A1 JP 2001149084 A

L8: Entry 2 of 2

File: DWPI

Mar 21, 2001

DERWENT-ACC-NO: 2001-246901

DERWENT-WEEK: 200138

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Human cyclic nucleotide phosphodiesterase 1B2 and its nucleotide sequence useful for treating cardiovascular, gastrointestinal and spleen disorders and screening for drugs to treat associated disorders

INVENTOR: FIDOCK, M D

PRIORITY-DATA: 1999GB-0022125 (September 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1085092 A1	March 21, 2001	E	058	C12N015/53
JP 2001149084 A	June 5, 2001		167	C12N015/09

INT-CL (IPC): A61 K 38/46; A61 K 45/00; A61 K 48/00; A61 P 43/00; C07 K 14/00; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/16; C12 N 15/09; C12 N 15/53; C12 N 15/866; C12 Q 1/44; C12 Q 1/68; G01 N 33/15; G01 N 33/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
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L9: Entry 1 of 14

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148378

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148378 A1

TITLE: Phosphodiesterase 10

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Loughney, Kate	Seattle	WA	US	

US-CL-CURRENT: [435/7.1](#); [435/196](#), [435/320.1](#), [435/325](#), [435/69.1](#), [530/387.2](#), [530/388.26](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw Desc
Image												

☐ 2. Document ID: US 20030144300 A1

L9: Entry 2 of 14

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030144300

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030144300 A1

TITLE: Pyrimidine carboxamides useful as inhibitors of pde4 isozymes

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Magee, Thomas Victor	Mystic	CT	US	
Marfat, Anthony	Mystic	CT	US	
Chambers, Robert James	Mystic	CT	US	

US-CL-CURRENT: [514/256](#); [514/269](#), [544/314](#), [544/326](#), [544/328](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw Desc
Image												

☐ 3. Document ID: US 20030044950 A1

L9: Entry 3 of 14

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044950
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030044950 A1

TITLE: Phosphodiesterase 10

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Loughney, Kate	Seattle	WA	US	

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw Desc
Image												

☐ 4. Document ID: US 20030032579 A1

L9: Entry 4 of 14

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032579
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030032579 A1

TITLE: Therapeutic use of selective PDE10 inhibitors

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lebel, Lorraine A.	North Stonington	CT	US	
Menniti, Frank S.	Mystic	CT	US	
Schmidt, Christopher J.	Old Lyme	CT	US	

US-CL-CURRENT: 514/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMMC	Draw Desc
Image											

☐ 5. Document ID: US 20030018047 A1

L9: Entry 5 of 14

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018047
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030018047 A1

TITLE: Therapeutic use of selective PDE10 inhibitors

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lebel, Lorraine A.	North Stonington	CT	US	
Menniti, Frank S.	Mystic	CT	US	
Schmidt, Christopher J.	Old Lyme	CT	US	

US-CL-CURRENT: 514/317; 514/308

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

☐ 6. Document ID: US 20020160939 A1

L9: Entry 6 of 14

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160939
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160939 A1

TITLE: Method of identification of inhibitors of PDE1C and methods of treatment of diabetes

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Michaeli, Tamar H.	Bronx	NY	US	

US-CL-CURRENT: 514/3; 435/21, 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc
Image											

☐ 7. Document ID: US 20020132754 A1

L9: Entry 7 of 14

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020132754
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020132754 A1

TITLE: Selective PDE 2 inhibitors as pharmaceuticals for improving perception

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boss, Frank-Gerhard	Wuppertal	CA	DE	
Hendrix, Martin	Koln		DE	
Konig, Gerhard	Dusseldorf		DE	
Niewohner, Ulrich	Wermelskirchen		DE	
Schlemmer, Karl-Heinz	Wuppertal		DE	
Schreiber, Rudy	Menlo Park		US	
Van Der Staay, Franz-Josef	Lohmar		DE	
Schauss, Dagmar	Wuppertal		DE	

US-CL-CURRENT: 514/1; 514/217.01

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC	Draw Desc
Image											

☐ 8. Document ID: US 20020111495 A1

L9: Entry 8 of 14

File: PGPB

Aug 15, 2002

PGPUB-DOCUMENT-NUMBER: 20020111495
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020111495 A1

TITLE: Nicotinamide acids, amides, and their mimetics active as inhibitors of PDE4 isozymes

PUBLICATION-DATE: August 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Magee, Thomas Victor	Mystic	CT	US	
Marfat, Anthony	Mystic	CT	US	
Chambers, Robert James	Mystic	CT	US	

US-CL-CURRENT: 546/291; 546/298, 546/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KUMC	Draw Desc
Image											

☐ 9. Document ID: US 6566087 B1

L9: Entry 9 of 14

File: USPT

May 20, 2003

US-PAT-NO: 6566087
DOCUMENT-IDENTIFIER: US 6566087 B1

TITLE: Phosphodiesterase 8A

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loughney, Kate	Seattle	WA		

US-CL-CURRENT: [435/19](#); [435/183](#), [435/196](#), [435/4](#), [435/7.1](#), [435/7.71](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KWIC	Draw Desc
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☐ 10. Document ID: US 6417208 B1

L9: Entry 10 of 14

File: USPT

Jul 9, 2002

US-PAT-NO: 6417208

DOCUMENT-IDENTIFIER: US 6417208 B1

TITLE: Method of identification of inhibitors of PDE1C

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Michaeli; Tamar H.	Bronx	NY		

US-CL-CURRENT: [514/359](#); [435/14](#), [435/196](#), [435/199](#), [435/252.3](#), [435/325](#), [435/354](#),
[435/372.2](#), [435/377](#), [435/6](#), [435/7.71](#), [514/866](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Image									

KWIC	Draw Desc
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Terms	Documents
PDE1B and splice variant	14

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DATE: Tuesday, August 26, 2003

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L9	PDE1B and splice variant	14	L9
L8	PDE1B2	2	L8
L7	human phosphodiesterase and dna.clm.	10	L7
L6	phosphodiesterase and dna.clm.	923	L6
L5	recombinant phosphodiesterase.clm.	1	L5
L4	recombinant phosphodiesterase	29	L4
L3	phosphodiesterase and dna	2463	L3
L2	human phosphodiesterase and dna	42	L2
L1	phosphodiesterase and human	5799	L1

END OF SEARCH HISTORY

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=> s PDE1A
 L1 82 PDE1A

=> s PDE1B2
 L2 7 PDE1B2

=> dup rem l2
 PROCESSING COMPLETED FOR L2
 L3 2 DUP REM L2 (5 DUPLICATES REMOVED)

=> d l3 ibib ab

L3 ANSWER 1 OF 2 MEDLINE on STN DUPLICATE 1
 ACCESSION NUMBER: 2001699725 MEDLINE
 DOCUMENT NUMBER: 21614508 PubMed ID: 11747989
 TITLE: Isolation and differential tissue distribution of two human cDNAs encoding PDE1 splice variants.
 AUTHOR: Fidock Mark; Miller Michele; Lanfear Jerry
 CORPORATE SOURCE: Discovery Biology, Pfizer Global Research and Development, Sandwich, Kent CT13 9NJ, UK.. mark_fidock@sandwich.pfizer.com
 SOURCE: CELLULAR SIGNALLING, (2002 Jan) 14 (1) 53-60.
 Journal code: 8904683. ISSN: 0898-6568.
 PUB. COUNTRY: England: United Kingdom
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 OTHER SOURCE: GENBANK-AJ401609; GENBANK-AJ401610
 ENTRY MONTH: 200203
 ENTRY DATE: Entered STN: 20011219
 Last Updated on STN: 20020307
 Entered Medline: 20020305

AB A cDNA selection technique has been used to isolate full-length human cDNAs of the phosphodiesterase 1 (PDE1) calcium calmodulin (CaM)-regulated phosphodiesterase gene family. We isolated cDNAs representing multiple splice variants of PDE1A, 1B and 1C from a variety of tissues. Included among these were two novel splice variants for PDE1A and 1B. The first, PDE1A5, encodes a 519-residue protein, which is different from PDE1A1 by the insertion of 14 residues, a divergent carboxy terminus and also differs from PDE1A3 through a divergent amino terminus. Our second novel splice variant represents the first occurrence of a splice variant of the

PDE1B gene. **PDE1B2** encodes a 516-residue protein and diverges from PDE1B1 by the replacement of the first 38 residues by an alternative 18, which is predicted to be functionally significant. Using the splice variant sequence differences to perform comparative Northern analysis, we have demonstrated that each variant has a differential tissue distribution.

=> d l3 ibib ab 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN .DUPLICATE 2
ACCESSION NUMBER: 2001:207981 CAPLUS
DOCUMENT NUMBER: 134:248840
TITLE: Protein and cDNA sequences of a novel human cyclic nucleotide phosphodiesterase **PDE1B2** and uses thereof in therapy and drug screening
INVENTOR(S): Fidock, Mark David
PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.
SOURCE: Eur. Pat. Appl., 58 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1085092	A1	20010321	EP 2000-307982	20000914
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001149084	A2	20010605	JP 2000-279201	20000914
PRIORITY APPLN. INFO.:			GB 1999-22125	A 19990917
AB This invention provides protein and cDNA sequences for a newly identified human cyclic nucleotide phosphodiesterase, designated PDE1B2 , which is believed to be a member of PDE family. The invention further relates to methods for utilizing PDE1B2 in drug screening assays and in therapy directed against diseases assocd. with inappropriate PDE1B2 activity or levels.				
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> s human cyclic nucleotide phosphodiesterase and splice variant?

L4 4 HUMAN CYCLIC NUCLEOTIDE PHOSPHODIESTERASE AND SPLICE VARIANT?

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 4 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 1-4 ibib ab

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:376296 CAPLUS
DOCUMENT NUMBER: 138:381351
TITLE: Sequence and characterization of human cyclic nucleotide phosphodiesterase isoforms, and diagnostic and therapeutic use of antibodies specifically binding the cyclic nucleotide PDEs
INVENTOR(S): Phillips, Stephen C.; Harrow, Ian; Lanfear, Jerry; Fawcett, Lindsay; Bandman, Olga
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 52 pp., Cont.-in-part of U. S. 6,416,991.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003092156	A1	20030515	US 2002-94168	20020307
US 6100037	A	20000808	US 1999-226741	19990107
US 6416991	B1	20020709	US 2000-595514	20000614

PRIORITY APPLN. INFO.:
US 1999-226741 A2 19990107
US 2000-595514 A2 20000614

AB The invention provides a **human cyclic nucleotide phosphodiesterase (HSPDE10A)**, polynucleotides that encode HSPDE10A, and antibodies that specifically bind HSPDE10A. Nucleic acids encoding HSPDE10A were identified in Incyte clone 826776 from a human prostate cDNA library and used to obtain full-length cDNA sequences from a human skeletal muscle library. HSPDE10A1 is 490 amino acids in length and has a putative cGMP binding motif and a PDE signature motif, and has chem. and structural similarity with human PDE5. A C-terminal **splice variant**, HSPDE10A2, is 367 amino acids in length and contains the same cGMP binding and PDE motifs. Northern anal. showed that HSPDE10A is expressed in skeletal muscle and prostate as a major transcript of .apprx.7.5 kb; a .apprx.3.0 kb mRNA was detected only in prostate; and a less prominent transcript of .apprx.1.5 kb occurred in testes and skeletal muscle. The invention relates to prepn. of antibodies that specifically binds HSPDE10A, and their use for immunopurifn. of the enzyme, for detection of its expression, and for diagnostic and treatment of adenofibromatous hyperplasia and other diseases. The invention also provides expression vectors, host cells, agonists, and antagonists and methods for diagnosing or treating disorders assocd. with expression of HSPDE10A.

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:475804 CAPLUS
DOCUMENT NUMBER: 133:100483
TITLE: **Human cyclic nucleotide phosphodiesterase** isoforms and their encoding nucleic acids
INVENTOR(S): Phillips, Stephen C.; Lanfear, Jerry; Fawcett, Lindsay; Bandman, Olga; Harrow, Ian
PATENT ASSIGNEE(S): Incyte Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000040733	A1	20000713	WO 2000-US371	20000107
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6100037	A	20000808	US 1999-226741	19990107
CA 2357146	AA	20000713	CA 2000-2357146	20000107
EP 1141332	A1	20011010	EP 2000-905560	20000107
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LT, LV, FI, RO
 JP 2002534091 T2 20021015 JP 2000-592427 20000107
 PRIORITY APPLN. INFO.: US 1999-226741 A2 19990107
 WO 2000-US371 W 20000107

AB The invention provides human cyclic nucleotide phosphodiesterases (HSPDE10A) and polynucleotides which identify and encode HSPDE10A. Nucleic acids encoding HSPDE10A were identified in Incyte clone 826776 from a human prostate cDNA library and used to obtain full-length cDNA sequences from a human skeletal muscle library. HSPDE10A1 is 490 amino acids in length and has a putative cGMP binding motif and a PDE signature motif, and has chem. and structural similarity with human PDE5. A C-terminal **splice variant**, HSPDE10A2, is 367 amino acids in length and contains the same cGMP binding and PDE motifs. Northern anal. showed that HSPDE10A is expressed in skeletal muscle and prostate as a major transcript of .apprx.7.5 kb; a .apprx.3.0 kb mRNA was detected only in prostate; and a less prominent transcript of .apprx.1.5 kb occurred in testes and skeletal muscle. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders assocd. with expression of HSPDE10A.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1999:396966 CAPLUS
 DOCUMENT NUMBER: 131:225297
 TITLE: Isolation, expression and analysis of **splice variants** of a human Ca2+/calmodulin-stimulated phosphodiesterase (PDE1A)
 AUTHOR(S): Snyder, Peter B.; Florio, Vincent A.; Ferguson, Ken; Loughney, Kate
 CORPORATE SOURCE: ICOS Corporation, Bothell, WA, 98021, USA
 SOURCE: Cellular Signalling (1999), 11(7), 535-544
 CODEN: CESIEY; ISSN: 0898-6568
 PUBLISHER: Elsevier Science Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The PDE1A gene encodes a Ca2+/calmodulin-stimulated 3',5'-cyclic nucleotide phosphodiesterase (PDE). The authors have performed 5' and 3' RACE and identified two addnl. 5'-**splice variants** and one addnl. 3'-**splice variant** of the human PDE1A gene. The three known 5'-**splice variants** and the two known 3'-**splice variants** combine to generate six different PDE1A mRNAs. However, one of the 5'-**splice variants** exhibits alternate splicing in the 5' untranslated region. Thus the six mRNAs encode four different PDE1A proteins. Recombinant forms of the different human PDE1A isoforms were expressed in Sf9 cells. The kinetic properties and inhibitor sensitivities of the four PDE1A isoforms are very similar to one another.

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1998:590053 CAPLUS
 DOCUMENT NUMBER: 129:298890
 TITLE: Isolation and characterization of cDNAs encoding PDE5A, a human cGMP-binding, cGMP-specific 3',5'-cyclic nucleotide phosphodiesterase
 AUTHOR(S): Loughney, Kate; Hill, Teresa R.; Florio, Vincent A.; Uher, Lothar; Rosman, Guy J.; Wolda, Sharon L.; Jones, Bryan A.; Howard, Monique L.; McAllister-Lucas, Linda M.; Sonnenburg, William K.; Francis, Sharron H.; Corbin, Jackie D.; Beavo, Joseph A.; Ferguson, Ken
 CORPORATE SOURCE: ICOS Corporation, Bothell, WA, 98021, USA
 SOURCE: Gene (1998), 216(1), 139-147

CODEN: GENED6; ISSN: 0378-1119

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Human cGMP-binding, cGMP-specific 3',5'-cyclic nucleotide phosphodiesterase (PDE5A) cDNAs were isolated. A 3.1-kb composite DNA sequence assembled from overlapping cDNAs encodes an 875-amino-acid protein with a predicted mol. mass of 100,012 Da (PDE5A1). Exts. prepd. from yeast expressing human PDE5A1 hydrolyzed cGMP. This activity was inhibited by the selective PDE5 inhibitors zaprinast and DMPP0. PDE5A mRNA is expressed in aortic smooth muscle cells, heart, placenta, skeletal muscle and pancreas and, to a much lesser extent, in brain, liver and lung. A 5'-**splice variant**, PDE5A2, encodes an 833-amino-acid protein with eight unique amino acids at the amino terminus. PDE5A maps to chromosome 4q25-27.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 15:54:37 ON 26 AUG 2003)

FILE 'MEDLINE, CAPLUS, EMBASE, SCISEARCH, BIOTECHDS, BIOSIS' ENTERED AT 15:56:56 ON 26 AUG 2003

L1	82 S PDE1A
L2	7 S PDE1B2
L3	2 DUP REM L2 (5 DUPLICATES REMOVED)
L4	4 S HUMAN CYCLIC NUCLEOTIDE PHOSPHODIESTERASE AND SPLICE VARIANT?
L5	4 DUP REM L4 (0 DUPLICATES REMOVED)

=> log y.

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